BRUHAT BANGALORE MAHANAGARA
PALIKE

QUALITY TEST REPORT

PMC for the Package-4 civil works in Yelahanka Division

Name of work: Improvement to Roads and Drains and Other Developmental Works At 407,707,208 Sfs, Major Akshay Girish Kumar Road Yelahanka 4th And 5th Phase And Surrounding Areas In Ward No.01,03 And 04 Of Yelahanka Division Under Amruthnagarothana Grants (Package-04)

(Shree Sai Consultants)

SRI SAI CONSULTANTS

SURVEYING, ENGINEERING PROJECT CONSULTANTS

Address for Correspondence : # 7, 1st Floor, 1st Cross, MEI Layout, Bagalagunte,
Near BBMP Zonal Office, Nagasandra Post,
Hesaraghatta Main Road, Bangalore - 560074
Ph : 9900161466

TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Consultants	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	**Proposed Use**	PCC(For drain)
Location/Source	13th A Main Road(Major Akshay Girishkumar Road)	**Date of Sampling**	27-09-2022
Period of Soaking	24 hours	**Date of Testing**	28-09-2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm	648	669	655	
B	Weight of oven - dry sample gm	639	660	647	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1682	1695	1686	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.651	2.651	2.652	2.651
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.408	1.364	1.236	1.336

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ
ಜಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೧೦೬

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TEST REPORT

Clients	Bruhath Bangalore Mahanagara Palike
Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Consultants	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Total Weight in gm:	3000

SIEVE ANALYSIS

Type of Material	40 mm down size	**Proposed Use**	PCC(For drain)
Sample Location	13th A Main Road(Major Akshay Girishkumar Road)	**Date of Sampling**	27-09-2022
		Date of Testing	28-09-2022

IS Sieve Size	Weight Retained in gm	Cum. Weight Retained in gm	Cumulative Weight Retained in %	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA-2007) % of Passing For Graded Aggregate of Nominal Size
80.00mm	0	0	0.00	100.00	100
63.00mm	0	0	0.00	100.00	-
40.00mm	91	91	3.03	96.97	95-100
20.00mm	1366	1457	48.57	51.43	30-70
10.00mm	966	2423	80.77	19.23	10-35
4.75mm	460	2883	96.10	3.90	0-5
Pan	117	3000	100.00	0.00	

Remarks : Satisfactory / Not Satisfactory

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Test Report on Cement

Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	28-09-2022
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	95Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	447 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	30.00%	25 % to 35

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TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Sri S. R Mohan Kumar
Consultant	:	Sri Sai Consultants, Bangalore
Date of Testing	:	01-10-2022
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	8mm, 10mm,12mm TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	8	0.397	517	554	15
2	10	0.618	532	573	16
3	12	0.889	553	586	17

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TEST RESULTS OF PHYSICAL PROPERTIES OF REINFORCEMENT STEEL

Name of Work	:	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Sri S. R Mohan Kumar
Consultant	:	Sri Sai Consultants, Bangalore
Date of Testing	:	01-10-2022
Techinical Reference	:	IS 1786:2008, IS1608:2005, IS1599:1985(Reaffirmed2006)
Sample Identification	:	8mm, 10mm,12mm TMT Fe500 Bars

Sl. No.	Nominal size dia in mm)	Mass per metre (kg/m)	TENSILE STRENGTH		
			0.20% proof stress/yield stress N/mm2	Tensile strength N/mm2 '	Elongation,percent on gauge length
1	8	0.397	517	554	15
2	10	0.618	532	573	16
3	12	0.889	553	586	17

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Consultants	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC(For drain)
Location/Source	13th A Main Road(Major Akshay Girishkumar Road)	Date of Sampling	03-10-2022
Period of Soaking	24 hours	Date of Testing	04-10-2022

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm	673	658	662	
B	Weight of oven - dry sample gm	665	650	654	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1698	1688	1691	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.653	2.659	2.657
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.203	1.231	1.223	1.219

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TEST REPORT

lients	BRUHAT BENGALORE MAHANAGARA PALIKE
roject	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
onsultants	Sri Sai Consultants, Bangalore
ontractor	M/s Sri S. R Mohan Kumar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

ype of Material	M sand	Proposed Use	concrete
ocation/Source	At Plant	Date of Sampling	03-10-2022
riod of Soaking	24 hours	Date of Testing	04-10-2022

L No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	639	669	655	
B	Weight of oven - dry sample gm.	630	660	647	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1677	1695	1686	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.658	2.651	2.652	2.653
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.429	1.364	1.236	1.343

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Test Report on Cement

Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	04-10-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	107 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	457 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	6 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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TEST REPORT

ts	Bruhat Bangalore Mahanagara Palike
ct	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
ultants	Sri Sai Consultants, Bangalore
ractor	M/s Sri S. R Mohan Kumar

SIEVE ANALYSIS

Weight:	3000 gms			
of Material	M sand	Proposed Use	concrete	
le Location	At Plant	Date of Sampling	04-10-2022	
		Date of Testing	04-10-2022	

Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
mm	0	0	0	100.00	100
mm	205	205	6.83	93.17	90 - 100
mm	338	543	18.10	81.90	75 - 100
mm	449	992	33.07	66.93	55 - 90
mm	485	1477	49.23	50.77	35 -59
mm	702	2179	72.63	27.37	8-30
mm	635	2814	93.80	6.20	0 - 10
	186	3000			-

arks : Satisfactory / Not Satisfactory

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch-98 LHS,13th A Main Road(Major Akshay Girishkumar Road) (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-10-2022	13-10-2022	7 days	8.166	22500	311	13.82	13.78
2	06-10-2022	13-10-2022	7 days	8.175	22500	309	13.73	
3	06-10-2022	13-10-2022	7 days	8.184	22500	310	13.78	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch-98 LHS,13th A Main Road(Major Akshay Girishkumar Road) (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-10-2022	03-10-2022	28 days	8.197	22500	483	21.47	21.70
2	06-10-2022	03-10-2022	28 days	8.205	22500	490	21.78	
3	06-10-2022	03-10-2022	28 days	8.184	22500	492	21.87	

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Bangalocre-560 074
PH: 9900161466

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.				
Consultants	Sri Sai Consultants, Bangalore				
Contractor	M/s Sri S. R Mohan Kumar				
Total Weight:	10000	gms			
SIEVE ANALYSIS					
Type of Material	**12.5 mm down size**		**Proposed Use**	CONCRETE	
Sample Location	At Plant		**Date of Sampling**	10-10-2022	
			Date of Testing	11-10-2022	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	528	528	5.28	94.72	90-100
10.0	4539	5067	50.67	49.33	40-85
4.75	4329	9396	93.96	6.04	0-10
Pan	604	10000			
Remarks :	Satisfactory / Not Satisfactory				

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Sri Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of Concrete:	M20
Size of cube:	150x150x150 mm
Reference IS Code:	IS:516-1959
Sample Location	Ch-426 LHS,13th A Main Road(Major Akshay Girishkumar Road) (For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	11-10-2022	18-10-2022	7 days	8.152	22500	312	13.87	13.76
2	11-10-2022	18-10-2022	7 days	8.187	22500	310	13.78	
3	11-10-2022	18-10-2022	7 days	8.175	22500	307	13.64	

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4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Authorised Signatory

SRI SAI CONSULTANTS

SURVEYING, ENGINEERING PROJECT CONSULTANTS

Address for Correspondence : # 7, 1st Floor, 1st Cross, MEI Layout, Bagalagunte,
Near BBMP Zonal Office, Nagasandra Post,
Hesaraghatta Main Road, Bangalore - 560074
Ph : 9900161466

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

roject	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
lient	Bruhat Bangalore Mahanagar Palike
onsultant	Sri Sai Consultants, Bangalore
ontractor	M/s Sri S. R Mohan Kumar
rade of oncrete:	M20
ize of cube:	150x150x150 mm
eference IS ode:	IS:516-1959
ample ocation	Ch-532 LHS,13th A Main Road(Major Akshay Girishkumar Road) (For Side Walls)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	14-10-2022	21-10-2022	7 days	8.167	22500	312	13.87	13.75
2	14-10-2022	21-10-2022	7 days	8.197	22500	310	13.78	
3	14-10-2022	21-10-2022	7 days	8.202	22500	306	13.60	

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Authorised Signatory

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜ.ಬ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

SRI SAI CONSULTANTS

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Near BBMP Zonal Office, Nagasandra Post,
Hesaraghatta Main Road, Bangalore - 560074
Ph : 9900161466

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

oject	Footpath Improvements and drain construction in Major Akshay Girishkumar Road in Yelahanka New Town in Ward No.04 of Yelahanka Satellite Town Sub Division.
ient	Bruhat Bangalore Mahanagar Palike
nsultant	Sri Sai Consultants, Bangalore
ntractor	M/s Sri S. R Mohan Kumar
rade of ncrete:	M20
ze of cube:	150x150x150 mm
eference IS ode:	IS:516-1959
ample cation	Ch-711 LHS,13th A Main Road(Major Akshay Girishkumar Road) (For Side Walls)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	15-10-2022	12-11-2022	28days	8.194	22500	492	21.87	21.72
2	15-10-2022	12-11-2022	28days	8.211	22500	488	21.69	
3	15-10-2022	12-11-2022	28days	8.183	22500	486	21.60	

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Authorised Signatory

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Test Report on Cement

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	16-09-2022
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	96 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	463 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	5 mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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ಜಿ.ಬಿ.ಬಿ.ಎ. ಬೆಂಗಳೂರು-106

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TEST REPORT

Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division
Consultants	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S R Mohan Kumar

SPECIFIC GRAVITY AND WATER ABSORPTION
FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	PCC(For drain)
Location/Source	11th B main Road	Date of Sampling	22-09-2022
Period of Soaking	24 hours	Date of Testing	23-09-2022

Sl No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm	674	652	645	
B	Weight of oven - dry sample gm.	665	644	637	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1699	1685	1680	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.660	2.661	2.654	2.658
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.353	1.242	1.256	1.284

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PH: 9900161466

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch-33 LHS,11th B Cross Road(For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	22-09-2022	20-10-2022	28 days	8.174	22500	485	21.56	21.69
2	22-09-2022	20-10-2022	28 days	8.181	22500	489	21.73	
3	22-09-2022	20-10-2022	28 days	8.154	22500	490	21.78	

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Bangaloere-560 074
PH: 9900161466

TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Consultants	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar

SIEVE ANALYSIS

Total Weight:	3000 gms		
Type of Material	M sand	Proposed Use	PCC(For drain)
Sample Location	11th B main Road	Date of Sampling	23-09-2022
		Date of Testing	23-09-2022

IS Sieve Size	Weight Retained	Cum. Weight Retained	Cum. % Retained	Cum. % Passing	Spec. Limit (%) Passing (Zone-II)
10.00 mm	0	0	0	100.00	100
4.75 mm	210	210	7.00	93.00	90 - 100
2.36 mm	322	532	17.73	82.27	75 - 100
1.18 mm	405	937	31.23	68.77	55 - 90
0.600 mm	475	1412	47.07	52.93	35 -59
0.300 mm	755	2167	72.23	27.77	8-30
0.150 mm	635	2802	93.40	6.60	0 - 10
Pan	198	3000			-

Remarks : Satisfactory / Not Satisfactory

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

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Nagasandra Post Hesaragatta Main Road,
Bangalocre-560 074
PH: 9900161466

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample location	Ch-62 RHS,11th B Cross Road (For Side Walls)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26-09-2022	24-10-2022	28days	8.133	22500	490	21.78	21.42
2	26-09-2022	24-10-2022	28days	8.148	22500	486	21.60	
3	26-09-2022	24-10-2022	28days	8.177	22500	470	20.89	

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ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-೫೬೦

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Nagasandra Post Hesaragatta Main Road,
Bangaloere-560 074

PH: 9900161466

TEST REPORT

Client	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Satellite Town Sub Division.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	M/s Sri S. R Mohan Kumar

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	M sand	Proposed Use	concrete
Location/Source	At Plant	Date of Sampling	30-09-2022
Period of Soaking	24 hours	Date of Testing	01-10-2022

Sl. No.	Test Property		TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.		668	647	652	
B	Weight of oven - dry sample gm.		660	638	647	
C	Weight of Pycnometer Filled with water gm		1275	1275	1275	
D	Weight of Pycnometer + sample + water gm		1694	1682	1685	
E	Bulk specific gravity	$\frac{B}{(C+A-D)}$	2.651	2.658	2.657	2.655
C	Absorption (%)	$\frac{(A-B)*100}{B}$	1.212	1.411	1.400	1.341

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Test Report on Cement

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Sample ID	Cement (ACC Cement) OPC 43 Grade
Date of Sample Tested	01-10-2022
Sample Supplied By	Agency

SLNo.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	107 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	489 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	7mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	26.00%	25 % to 35

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Bangaloere-560 074
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KERB STONE (CORE) TEST REPORT

Name of Work	:	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	:	Bruhat Bengaluru Mahanagara Palike
Contractor	:	M/s Sri S. R Mohan Kumar
Consultant	:	Shree Sai Consultatnts, Bangalore
No.of Sample Tested	:	3
Date of Testing	:	01-10-2022
Techinical Reference	:	IS:516-1959 (Reaffirmed 1999), SP-24:1983.
Grade of Concrete	:	M20

Sl. No.	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	85.00	0.367	2198.96	1.70	0.960	39.88	20.31	21.94	21.06	26.32
2	50.00	85.00	0.394	2360.74	1.70	0.960	39.67	20.20	21.82	20.95	26.18
3	50.00	85.00	0.374	2240.90	1.70	0.960	39.75	20.24	21.86	20.99	26.24

Note:
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2. The results indicated above are based on the tests carried out on the samples received in the laboratory.
3. Any Query regarding the report must be reported reported within 90 days from the date of testing.
4. The material used in the site satisfied the standard of MORTH's 5th revision and hence can be used in the work.

Consultant's Representative

SHREE SAI CONSULTANTS
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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch-42 RHS, 11th B main Road For Raft)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	03-10-2022	31-10-2022	28days	8.190	22500	492	21.87	21.70
2	03-10-2022	31-10-2022	28days	8.181	22500	488	21.69	
3	03-10-2022	31-10-2022	28days	8.172	22500	485	21.56	

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

Project	Improvements to Roads and Footpath from 1st A main Road to 13th B main Road and Surrounding Area Ward No.04 of Yelahanka Sattelite Town Sub Division.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	Shree Sai Consultants, Bangalore
Contractor	M/s Sri S. R Mohan Kumar
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959
Sample Location	Ch-112 RHS, 11th B main Road (For Side Walls)

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	06-10-2022	03-11-2022	28days	8.194	22500	478	21.24	21.57
2	06-10-2022	03-11-2022	28days	8.202	22500	485	21.56	
3	06-10-2022	03-11-2022	28days	8.157	22500	493	21.91	

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